

Patience the Key to Avoiding Telephone System Slowdown

Last September, the University community experienced a gradation in telephone service when it appeared that 28,000 students attempted to access the telephone registration system at the same time. In consultation with Edmonton Telephones, a number of steps have been taken to help alleviate the problem but it is possible that there will be some impact on the telephone system

again this September. The problem, says Associate Registrar Hugh King, evidences itself by a dial tone not being immediately present when the handset is lifted off the hook. The temptation is to depress the cutoff button, sometimes repeatedly, in a effort to get a dial tone. This results in the caller going to the back of the queue for a dial tone and has the effect of further overloading the telephone system.

Should the problem recur this fall, callers are asked to be patient and wait for the dial tone. "It will only be a few seconds (though it may be perceived as being longer)," Mr. King says. "The worst action that can be taken is to 'jiggle the hook.' That will only exacerbate the problem. Your patient cooperation will greatly assist the system to cope with the demands of this busy time of year." □

Asbestos Removal Continues

As of 31 March 1987, more than 60 percent of the materials that contain asbestos had been removed from University buildings. This leaves just over 38 percent for future removal, and the work will continue during 1987-88.

A total of 17 removal projects have been completed since the program started. Eighty percent of this work took place in mechanical equipment rooms or dealt with the removal of asbestos insulation (most of it in bad condition) from mechanical pipes, ducts and other components at various locations.

From the schedule of planned projects for 1986-87, only the Chemical/Mineral Engineering project was carried out, removing asbestos from two large mechanical rooms.

The cost of the program (to 31 March 1987) was approximately \$10,215,000. The average cost of removal, and replacement in many cases, remains at about \$116 per square metre (or \$10.80 per square foot). The extent to which this year's program can be carried out will depend on available funding, but an allowance will be set aside for unexpected renovations and emergencies. Past experience indicates that there is considerably more asbestos in various forms and concealed in numerous locations than was originally anticipated or recorded in the inventory. □

FOLIO

University of Alberta

3 September 1987

Jeanne Sauv  to Deliver H.M. Tory Lecture

Jeanne Sauv , Governor-General of Canada, will present the Henry Marshall Tory Lecture at the University of Alberta.

The annual public lecture, held in honor of H.M. Tory, the University's first president, is

scheduled for Friday, 18 September, at 8 p.m. in the Students' Union Building Theatre.

At press time the title of the lecture had not been set. All indications are, however, that the lecture will be youth-oriented.

The Tory Lecture is sponsored by the Friends of the University of Alberta.

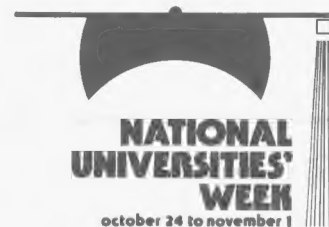
Full details of the lecture and Her Excellency's campus itinerary will be published in *Folio* next week. □

Memorable Morning Exercise

Les Young, Minister of Alberta Technology, Research and Telecommunications (left), and Ron Micetich, President and CEO, SynPhar Laboratories Inc., let the R & D world know that SynPhar's doors are officially open. Dr. Micetich and his team of 10 senior scientists want to develop products, for example, penicillin-related pharmaceuticals, that will improve the quality of health of humankind. Research will be carried out in collaboration with the University of Alberta. SynPhar is at 4290 91A Street, Edmonton. Myer Horowitz, President, University of Alberta; Mr. Nishi, Senior Managing Director, Taiho Pharmaceutical Co., Ltd.; and Mamoru Funakoshi, Consul General of Japan, also participated in the 24 August flag-raising ceremony.



University of Alberta



Contents

- World Literacy Day
- New director for Native Student Services
- Soviet seismologist here to acquire quake data
- Second year of cooperative project with IBM marked



World Literacy Day Calls for Help Against Illiteracy

Wanted people to make welding supplies in their home.

Wanted people to market welding supplies in their home.

Wanted people to make weeding things in their home.

Wanted people to make wedding clothes in their home.

Wanted people to show wedding decorations in their home.

Wanted purple made wedding supplies in their home.

Wanted people to smoke welding supplies in their home.

Wanted pearl wood supplants in their home.

Wanted petal winding subles in their home.

These are samples of some of the responses given by 52 adults in the Edmonton area to a want ad which read, "Wanted people to make wedding supplies in their home." When given a set of 24 everyday reading tasks (TV listings, sales catalogue, utility bills, etc.), each person on average gave only about nine complete responses ("complete" being taken to mean that they had understood all the necessary information without assistance from the researcher). These adults had spent an average of 11 years in school and were of average intelligence. (The data were gathered as part of research undertaken by a McCalla Research Professor).

World Literacy Day is 8 September, and it was first recognized as such in 1965 by the Teheran World Congress of Ministers on the Eradication of Illiteracy. It is a day when we stop to reflect on people like those who

could not read the ad. It is a time to reflect on the extent of illiteracy and to recognize achievements in addressing the problem.

The concept of literacy/illiteracy should not be measured by a simple test of reading and/or writing. Literacy is best defined within a theory of relativity which explains that while many people are literate in some situations, there are other situations in which they are illiterate.

Illiteracy in Canada Extremely Costly

There are, however, too many people who are relatively illiterate in most circumstances. Figures range from 10 to 40 percent Canada-wide. These are the individuals who in most cases have a tenuous relationship with society.

From society's perspective, these individuals generally do not contribute in taxes; they put little money into circulation; they are non-consumers of books and print materials; and they cost the government in terms of living subsidies. Business estimates that illiteracy in Canada costs \$3 billion annually.

From the individual's perspective, they cannot function within society; they find it difficult to get jobs; those who hold jobs often shy away from seeking promotion if it means more literacy demands which they feel they cannot meet; some who manage to acquire the skills of a trade are too embarrassed to admit their low

literacy skills and so do not show up to write the qualifying exam; some will not volunteer to assist at their children's schools because they may be asked to read; many are in constant fear that their situation will become known to their friends and family and they are constantly inventing excuses or strategies to protect themselves. In brief, they tend to feel inferior as people. They find themselves in a dependency relationship with their environment and are helpless in the face of many situations. The individuals who could not read the want ad will not be able to find jobs via that channel. They must depend on others to read the ad for them. But they do not want to expose this inadequacy to others so they are caught in a vicious circle, and are often viewed as lazy or uninterested in looking for work.

Programs Need Fine-Tuning

In recent years, more and more programs have become available for

adults to upgrade their literacy standards, and more and more adults are coming forward to avail themselves of these opportunities. However, most programs are still operated by volunteers and all have long waiting lists, as has been documented by the Literacy Subcommittee of the Edmonton Association for Continuing Education and Recreation. In addition, because of economic cutbacks, some programs, especially for the very low literate, will not operate this fall.

Literacy Day is a time to reflect on those who are less fortunate because they are less literate. It is a time to reflect on the contributions to literacy we might each make, ranging from empathizing with the illiterate, to offering a tribute to those who volunteer to help; from doing something particular to help the cause of literacy, to lobbying on behalf of more opportunities for literacy development.*□

**This article was adapted from a submission by William T. Fagan, Professor of Elementary Education.*

Rodrigues in Charge of Native Student Services

Reinhild Rodrigues has taken up the appointment of Director of Native Student Services.

Day one in Dr. Rodrigues' mandate of encouraging native people to enroll in university studies was 17 August.

The directorship also calls for Dr. Rodrigues to organize and supervise the distribution of information on native student programs to staff and students, and to act as a link between the University of Alberta and native communities and organizations.

She comes to this University from Athabasca University where she taught anthropology before

becoming coordinator of regional services (the native outreach program in the North).

A (University of Freiburg) PhD, Dr. Rodrigues says the new job is "something I've always wanted to do. Native education is at the point where not only do we have excellent students, but there's a structure for them to fit into."

Native Student Services has received about 100 applications for 20 places in the first-year introductory program known as CUT (Coordinated University Transfer program).

Dr. Rodrigues reports to Peter Miller, Dean of Student Services.□

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University
of
Alberta

Deadlines:

Notice of coming events: 9 a.m. three weeks in advance of desired publication date.

Classified advertisements: 3 p.m. one week in advance of desired publication date. This date also serves as the deadline for cancellation of advertisements. Advertisements cost 30 cents per word with no discount for subsequent insertions. There is a maximum limit of 30 words and a minimum charge of \$1.50. Contributors corrections will be assessed at \$1.50 for each line in which an insertion is made. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission. **Display advertisements:** 3 p.m. one week in advance of desired publication date. Contact Public Affairs for sizes, rates and other particulars.

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Soviet Expert Watches How Our Earth Moves

Earthquake prediction, long considered impossible, can now be one to two years advance warning of strong earthquakes, accurate to within a few hundred kilometres.

The need for such predictive ability is not a result of increased earthquakes: their numbers have remained constant. But ours have not. The human search for fuel takes us deeper into quake-prone areas. Our cities are built on lattice-works of gas and electrical supply grids, susceptible to even distant tremors.

"Once, a quake merely rang the church bells or rattled glass windows," says Vladimir Isackovitch Keilis-Borok, leading Soviet seismologist, interviewed at the end of a two-month study visit to Western Canada.

With Edo Nyland (Physics), the Moscow-born geophysicist has been adding Western Canadian quake data to a fast-growing international database now being analyzed in many countries, including the Soviet Union, United States, Italy, Belgium and Canada.

Quake prediction is an idea whose time has finally come, thanks to the immense amount of new information now available about the behavior of the Earth's "crust" or lithosphere.

"Earthquake prediction is the practical aspect of the basic problem: the dynamics of the lithosphere," says the newly-elected president of the International Union of Geodesy and Geophysics, a wiry former alpinist who did his undergraduate work at Moscow's College for Geophysical Prospecting before specializing in the mathematics underlying earthquake activity.

Seismology is full of apparently unpredictable phenomena, happenings that seem unstable, susceptible to very rapid changes.

Until the end of the 19th century scientists assumed that systematic analysis would reveal how the dismantled "pieces" worked.

That didn't happen. The longer you examined, the greater the chaos appeared. At a multitude of levels, an indeterminable chaos seemed to prevail, forever unstable, forever unknowable.

"This probably sounds unduly profound," says the Soviet seismologist, the merest flicker of a smile coming to his face. "It's really very simple." To demonstrate, he makes a fist with his left hand, placing an imaginary rock on the mountain peak of his folded knuckles.

"The slightest perturbation will send this rock down quite a different slope," he says. "Its fate will be forever different. And it's futile to try to explain why it has fallen down one side or another."

To describe the behavior of such events a system was needed that could accept instability and chaotic behavior.

Enter non-linear science, and a new, complex theoretical basis for Earth's lithosphere that catalogues this fractured world in hierarchies ranging from tiny grains of rocks to entire continents, all in perpetual motion, controlled by migrating fluids. (For a fuller discussion of non-linear science, see the article "Chaos," in *Scientific American*, December 1986.)

Non-linear science offers a hope of understanding collective behavior, says Dr. Keilis-Borok. The pieces of Earth's puzzle may be complicated. They may organize themselves along lines of their own, sudden, making.

"But they are in understandable patterns," says the seismologist. Dr. Keilis-Borok's visit was



V.I. Keilis-Borok

sponsored through the Distinguished Visitors Program, Endowment Fund for the Future. □

Faculty Women's Club About to Embark on New Season

The 1987-88 season of the Faculty Women's Club begins with the Fall Membership Tea on Saturday, 12 September, from 1 to 4 p.m., in the Lister Hall Banquet Room.

Membership in the club is open to all academic women staff and wives of academic staff. A representative from each Faculty serves as liaison between the executive committee and her Faculty's members.

The executive committee for the new season is headed by: Barbara Horowitz (Honorary President), Barbara Freeman (President), Vi Moskalyk (Past President), and Lorraine McDonald (Vice-President, Interest Group Coordinator).

At the tea, members have an opportunity to join interest groups which provide activities where new

friendships may be made or old ones continued. In the 30-odd groups, the interests range from sketching to flower arranging, from book reviews to French conversation.

All those eligible are cordially invited to attend the tea in order to join the club and sign up for interest groups.

The recent revisions to the constitution will be voted upon at the tea.

A coffee party for newcomers will be hosted by Barbara Horowitz at University House on 9 September at 7:30 p.m.

Also planned for the new academic year are a bus trip to the Devonian Botanic Garden on 28 September; a luncheon on 20 October (guest speaker: Susan Natrass); another luncheon in February; a wine and cheese party in March; and in April, the annual general meeting and dinner. □

Faculté Saint-Jean Celebrates Tenth Anniversary

On 10 September, a special reception in honor of the "Pères saints" will be held to inaugurate the tenth year of Saint-Jean as a Faculty of the University of Alberta. The Oblate Fathers founded Saint-Jean in 1908 and, over approximately 70 years, with the cooperation of the Sisters of Evron, developed it as a centre of French

learning and culture before it was designated a Faculty.

During the reception, a portrait of Father André Daridon (1880-1943), founder and principal of Saint-Jean (1908-1920; 1927-1930), will be unveiled.

For further information, contact the Dean's Office, Faculté Saint-Jean, 469-0376. □



Activities

Mary Totman has been reappointed Executive Officer of the Senate for a two-year term . . . On 18 March, Bill Meilen (Drama) will receive a Performing and Creative Arts Award from the City of Edmonton . . . The University of Windsor has awarded an honorary Doctor of Music degree to Violet Archer (Professor Emeritus of Music) . . . Howard E. Tennant has been appointed President and Vice-Chancellor of the University of Lethbridge. His appointment commenced on 1 July . . . Skip Terry Fenton (Animal Science) and his rink placed second in the first invitational NAIT bonspiel for Alberta post-secondary institutions. University of Alberta curlers were presented with a plaque for recording the highest average points per team . . . Editors Deanna Wall and Doug Challborn are justifiably proud of the "International Students' Handbook." Their handiwork was noted in the top three at a publications contest sponsored by the National Orientation Directors Association. There were more than 300 entries in the "Best Brochure for Special Populations" category.

Can a Computer Help Choose the 'Best' Location?

Yes, says John Hodgson, Chairman of the Department of Geography, as long as people are valued more highly than mathematical purity.

Hodgson's specialty is the "LA model": mathematical constructs created to help locate public and private facilities like health, childcare, library and emergency services, and to allocate patrons to them.

Working alongside graduate students in his department, Louisiana-born Hodgson has co-published on daycare locations, pointing out the very different needs of single-parent, bus-riding family users in a highly auto-oriented society. Another co-publication deals with the best locations for water bombers assigned to fight forest fires in

Alberta.

The work behind these reports is long, detailed and often agonisingly boring to input and verify, but Hodgson's constant concern has been with overly-simple mathematical models, particularly those assuming that the closer the facility to the people, the greater the social benefit.

These "simple models" are defended by some academic math purists even to the expense of realism, he says.

To demonstrate: in his 1981 study of Edmonton vehicle licensing habits, one-third of vehicle owners went to the government outlet nearest their home. But 1,300 went to the one farthest away.

"In many cases, people do not care how distant a facility may be," he says. "They may be more attracted to a larger facility. Or they use one for no apparent reason."

A 1981 study leave took Hodgson and family to India, where many

academics were using "old-fashioned, out-dated approaches" in their design of location projects. In Goa, working with a local professor, he was able to demonstrate mathematically why the local health delivery system was failing. The original models, not the local system, were lacking.

"Models of hierarchical systems like health care have many gaps," he says. "I'm currently working on closing some of them."

A self-confessed academic slow-starter, Hodgson is the son of a geophysicist, in whose footsteps he initially tried to follow. His bachelor's degree was a struggle until location theory caught his eye. (He graduated first class for his work on Ontario brewery locations.) His master's and PhD are on Toronto's highway network system.*□

**Reprinted from Q and A, published by the University's Office of Public Affairs.*

Selection Committee for Dean: Faculty of Agriculture and Forestry

An Advisory Selection Committee has begun its search for a Dean of the Faculty of Agriculture and Forestry. The appointment will take effect 1 July 1988 or as soon as possible thereafter. The current Dean has advised that he will not be a candidate for the position. Suggestions of possible candidates and assessments of the leadership needs of the Faculty are invited.

Nominations or applications for the position, accompanied in the latter case by a detailed résumé of qualifications and experience, and the names of three referees, should be submitted by 1 December 1987 to: Dr. J. Peter Meekison, Vice-President (Academic), 3rd Floor, University Hall, University of Alberta, Edmonton, Alberta, T6G 2J9.

Selection Committee for Dean: Faculty of Business

An Advisory Selection Committee has begun its search for a Dean of the Faculty of Business. The appointment will take effect 1 July 1988 or as soon as possible thereafter. The current Dean has advised that he will not be a candidate for the position. Suggestions of possible candidates and assessments of the leadership needs of the Faculty are invited.

Nominations or applications for the position, accompanied in the latter case by a detailed résumé of qualifications and experience, and the names of three referees, should be submitted by 15 December 1987 to: Dr. J. Peter Meekison, Vice-President (Academic), 3rd Floor, University Hall, University of Alberta, Edmonton, Alberta, T6G 2J9.

Selection Committee for Dean: Faculty of Education

An Advisory Selection Committee has begun its search for a Dean of the Faculty of Education. The appointment will take effect 1 July 1988 or as soon as possible thereafter. Suggestions of possible candidates and assessments of the leadership needs of the Faculty are invited. Since the incumbent Dean, Dr. R.S. Patterson, is a candidate, the committee is also required to conduct a review of his administrative performance. Comments are invited with this stated purpose in mind.

Nominations or applications for the position, accompanied in the latter case by a detailed résumé of qualifications and experience, and the names of three referees, should be submitted by 1 November 1987 to: Dr. J. Peter Meekison, Vice-President (Academic), 3rd Floor, University Hall, University of Alberta, Edmonton, Alberta, T6G 2J9.

Faculty of Education Appreciates IBM's Personal (Computers) Touch

In 1985, the Faculty of Education became a partner with IBM Canada, Alberta Education, three urban schools in Edmonton, Calgary and Lethbridge and the University of Lethbridge in a co-operative project designed to aid change in instructional computing in Alberta. The goal of the project has been one of gaining insight into ways of stimulating greater use of computers in instruction through experimentation with a variety of strategies at both the public school and university levels. The assumption behind the project is that computer applications are vital to the continuing provision of a quality education.

A major grant from IBM Canada and supporting funding from the government of Alberta contributed

to the establishment of a new educational computer network serving students and teachers in Edmonton, Calgary and Lethbridge. IBM Canada provided \$1.1 million in software and equipment, including more than 160 IBM Personal Computers.

A meeting of the participants on 25 August marked the completion of the second year of the project. The order of business included the presentation of a plaque recognizing the commitment of IBM Canada to community support and the improvement of education. The plaque will hang outside the Faculty of Education Co-operative Project Laboratory which contains a classroom set of computers donated by IBM.□



John Tartar, Associate Vice-President (Information Systems) (right), makes sure that Brian Olafson doesn't leave the University Hall meeting empty-handed. Mr. Olafson is branch manager IBM Canada Ltd.

Rancher, Rancher, How Does Your Pasture Grow?

Can a grazing system, developed in African conditions, be adapted to suit Canadian native grasslands?

The Savory Grazing Method (also called 'holistic resource management') is a high intensity short duration rotational grazing system currently arousing interest among stock ranchers.

Devised by Alan Savory, based on his experience in Africa, the method is intended to increase a pasture's carrying capacity and productivity.

A study by University of Alberta plant scientist, Robin Lagroix-McLean, raises questions about its suitability for our native grasslands.

Under Savory's system, large numbers of cattle (almost twice as many as usual) graze one field for several days, the period varying according to time of year. The cattle eat everything in sight as they work their way from one end of the field to the other. By the time they are moved to the next pasture, the field is thoroughly "mowed" and has been much trampled because of the high density of animals.

"Savory suggests that this increased trampling will enhance root aeration, water penetration and seed germination," Lagroix-McLean explains, "and then the more productive and desirable species of pasture grasses will increase."

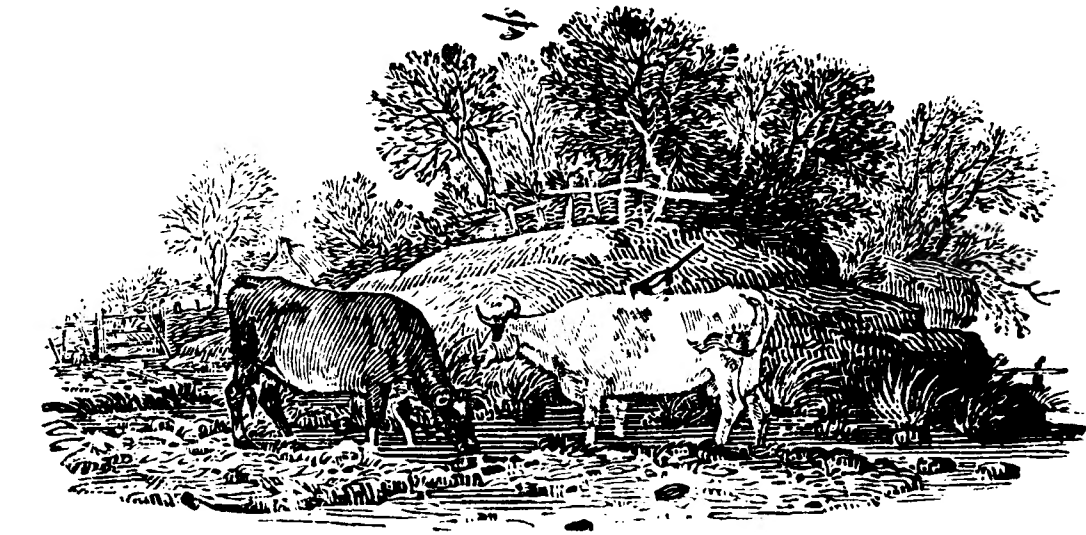
Assuming that changes in species will occur through seed germination, then the key to this 'favorable succession' is that the right kinds of seeds are in the soil (the seed bank).

Lagroix-McLean, a graduate student, has been studying a native grassland seed bank by recording seed germination in soil samples taken from native grassland pasture on the Shipwell Cattle Company ranch in the foothills of southern Alberta. Three sets of samples are taken: from fields where the Savory Grazing Method is used; from fenced-off ungrazed areas in those fields; and from a neighboring rancher's land that is continuously grazed.

In the first year of sampling, preliminary data show that 70 percent of the seeds that germinated belonged to groups of desirable plant species. (A desirable species is productive, nutritious and palatable to the animals.)

"There was also an absence of the seeds that you'd like to see," says Lagroix-McLean.

"Desirable species such as rough fescue and needle grasses weren't



found in any of the germination trials. Not even in the ungrazed samples or in the samples from the neighboring ranch.

"Savory seems to suggest that by following his system, these species will be able to germinate.

"But if the seed isn't there, they can't!"

Lagroix-McLean points out that, under intensive grazing, plants may not have the opportunity to go

through a flowering and seed production cycle.

As her adviser, Jane King, explains, Savory's theory is based on an African situation where many of the grasses are annuals. "Is it suitable for a Canadian situation?" she wonders. "Can it be adapted to our very different conditions?"

Lagroix-McLean points out that "our native species may not be adapted to such high intensity

grazing, and some of the species may be better adapted to being grazed in the winter than in the summer."

Financial support for Lagroix-McLean's work comes from Alberta Farming for the Future.*□

**Reprinted from Research Report, published by the University's Office of Public Affairs.*

Successful Final PhD Oral Examinations

Name	Department	Final Thesis Title
Ceinwen E. Cumming	Educational Psychology	"Psychological Profiles of Women with Premenstrual Complaint"
Robert J. Faltin	Educational Psychology	"Psychologists' Descriptions of Successful and Unsuccessful Chronic Low Back Pain Clients on Compensation: A Reconstitutive Hermeneutic Analysis"
Kevin Anthony Giles	Educational Administration	"An Exploratory Analysis of Organizational Effectiveness and Culture in a School District"
Rosemarie D. Hunziker	Immunology	"Immunological Considerations of the Maternal-Fetal Interface: The Placental Barrier to Cellular Traffic and Nature of the Antigens Involved"
Buddhima Indraratna	Civil Engineering	"Application of Fully Grouted Bolts in Yielding Rock"
Mahnaz Kasraie	Mining, Metallurgical and Petroleum Engineering	"Simulation of Modified Steam Injection Processes Applied to Bottom Water Reservoirs"
Konstantinos Koskinas	Sociology	"Prolegomena to a Theory of Working Class Culture: A Marxist View of the Organizational, Political, and Ideological Praxis of the Alberta Federation of Labour, 1979-1986"
Howard Y. Leibovitch	Educational Psychology	"Experiencing of Difficulty in Psychotherapy: An Interpretative Study"
John Graham Rowell	English	"Virtue and Moral Authority in Jane Austen's Fiction"
Vicente Samano	Chemistry	"Towards the Synthesis of Sterpuric Acid"
Kirsteen Stewart	Educational Psychology	"A Comparison of Motor Ability Between Hearing and Total Communication and Oral Hearing-Impaired Children"
Sally M. Vogel	Faculty of Home Economics	"Development of a Methodology for Determining the Consumer Acceptance of a New Cultivar in Developing Countries"

Distinguished Mexican Educator to Visit Department of Educational Foundations

Pablo Latapí, recipient of the Interamerican Award in Education ("Maracay") offered by the Interamerican Council for Education, Science and Culture, from the Organization of American States (OAS) to the most outstanding educator in Latin America, will visit the Department of Educational Foundations from 14 September to 14 October.

Dr. Latapí has taught in the Iberoamericanisches Forschungsinstitut of the University of Hamburg (West Germany), Harvard University, the University of Zaire and several Mexican and Latin American universities.

Most recently, Dr. Latapí has been organizing the Mexican

Association for Human Rights. He has expressed an interest in meeting with individuals and institutions concerned with human rights and education in Western Canada.

Dr. Latapí will conduct a two-day seminar on "Sociology of Education in Latin America: Participatory Research and Popular Education," a workshop on "Adult Education, Literacy Training and Rural Development," and will advise on the design of the field research of a comparative, qualitative research project on adult education, currently under the direction of Kazin Bacchus and Carlos Torres (Educational Foundations). □

University Professorships

The Selection Committee for University Professors will be considering nominees for University Professorships later in the fall. This title honors professors whose academic, professional and community contributions have been exceptionally meritorious.

Nominations should be submitted to the Vice-President (Academic), no later than 30 October 1987, but before making any nomination, persons are asked to study the criteria, copies of which may be obtained from Ms. Dorothy Gamble, Office of Vice-President (Academic), 3-4 University Hall (432-3443).

Investing in Our Future

Canada's universities are a window on the world. They're about people and ideas, research and development, next door and around the world. They're a vital part of our community, making our best resource - our people - even better.



ASSOCIATE VICE PRESIDENT & COMPTROLLER

University of Alberta
Edmonton



The University of Alberta is one of Canada's leading educational institutions. With an enrollment of over 30,000 students, and an annual budget of over \$400 million, the University contributes significantly to the educational, social and economic fabric of Alberta.

Reporting to the Vice President (Administration), the Associate Vice President and Comptroller will manage a staff of over 70 responsible for the accounting and financial controls of the University. Major challenges include integration with academic and service functions and maintaining and upgrading sophisticated management information systems.

Applicants must have proven executive experience, exemplary interpersonal skills, and possess an excellent record of achievement in financial management in a progressive organization. A relevant degree or professional accounting designation is essential, as is a proven ability to provide innovative solutions and leadership at senior levels.

The University of Alberta offers an opportunity to implement 'state-of-the-art' initiatives in one of the premier financial management opportunities in Canada. If this challenge interests you, please forward your resume in strict confidence to Darwin Park, Woods Gordon, Management Consultants, 1800 Esso Tower, Scotia Place, 10060 Jasper Avenue, Edmonton, Alberta T5J 3R8.



Woods Gordon

A MEMBER OF ARTHUR YOUNG INTERNATIONAL

Now is the Time to Apply for 3M Teaching Fellowships

Ten outstanding teachers from Canadian universities will once again be recognized for their work in practising and promoting high-quality instruction. Nominations for the 1987 3M Teaching Fellowships are being sought; the deadline for submissions is 1 October.

Last year, Roger Beck (Marketing and Economic Analysis) was one of 10 academics from across the

country who received the prestigious award. The one-year fellowship is open to anyone currently teaching at a Canadian university. According to the Fellowship nomination background material, "some preference will be given to applicants from Western Canada."

Each fellowship comes with a citation and includes an invitation to a three-day, all-expenses-paid

seminar at the Chateau Montebello, which candidates must agree to attend. The seminar is designed to celebrate outstanding teaching achievements and seek out strategies for expanding the impact of successful teachers.

No standard form is required and self-nominations will be accepted as well as nominations from colleagues and students.

Nominations should be sent to the Society for Teaching and Learning in Higher Education (STLHE) 3M Teaching Fellowships, c/c Teaching Resources and Continuing Education, Needles Hall, University of Waterloo, Waterloo, Ontario, N2L 3G1. Telephone enquiries can be directed to (519) 885-1211, ext. 2579, or to Bente Roed Cochran, Coordinator, CITL, 432-2826. □



Faculty/Support Staff

Tour Guides Needed

Would you be willing to help welcome parents of new students to the University of Alberta? On Saturday, 12 September, between 2 and 4 p.m., people familiar with the campus are needed to guide groups of parents and respond to questions.

If you are interested, call Karen May in the Development Office, 432-4418.

The Health Line

The Health Line is a free and confidential public telephone service providing informative tape-recorded health messages on a variety of physical, social and emotional health issues.

Brochures listing all available tapes can be picked up at social and health agencies, medical clinics, pharmacies and public libraries.

The Health Line can be reached by dialing 428-4288. It operates from 10 a.m. to 6 p.m. weekdays and from noon to 8 p.m. weekends.

Talks

Anatomy and Cell Biology

8 September, 4 p.m. David Begg, Associate Professor, Laboratory of Reproduction and Reproductive Biology, Harvard Medical School, "Dynamics of Cortical Actin Organization During Early Development in the Sea Urchin." 5-10 Medical Sciences Building.

15 September, 4 p.m. Michael Barish, Assistant Professor, Physiology and Biophysics, University of California, "Early Development of Amphibian Neurons." 5-10 Medical Sciences Building.

Canadian Mediterranean Institute

10 September, 7:30 p.m. Robert and Helen Buck, "Recent Discoveries in Greece." Lecture Room, Provincial Museum.

English

Thomas McAlindon, University of Hull, England, will deliver a series of lectures titled "Shakespeare's Tragic Cosmos," as follows:

14 September, 4 p.m. "An Experience of Chaos."

16 September, 4 p.m. "Grace and Rude Will—Romeo and Juliet."

17 September, 3:30 p.m. "Christian and Heathen—Othello."

21 September, 4 p.m. "Kind and Kind—King Lear."

23 September, 4 p.m. "Double, double—Macbeth."

24 September, 3:30 p.m. "Half to half the world opposed"—Antony and Cleopatra." All lectures in L-3 Humanities Centre.

Cross Cancer Institute

15 September, noon. Gadeski Visiting Professor Barbara Andersen, Department of Psychology, University of Iowa, "Sexual Difficulties in Cancer Patients." Auditorium, Cross Cancer Institute.
15 September, 4 p.m. Professor Andersen, "Symptom Perception and Cancer Delay." Auditorium, Cross Cancer Institute. Both lectures co-sponsored by Educational Psychology and Obstetrics-Gynaecology.

Women's Studies

15 September, 4 p.m. Teresa De Lauretis, Professor of the History of Consciousness, University of California, Santa Cruz, "The Female Body and the Lesbian Body." 5-20 Humanities Centre.
16 September, noon. Professor De Lauretis, "Feminist Theory and the Historical Consciousness." L-3 Humanities Centre.

AHFMR and Anatomy and Cell Biology

16 September, noon. R. Wallace Lind, Senior Research Associate, Howard Hughes Medical Institute and the Salk Institute, "The Neuroanatomy of Thirst." 5-10 Medical Sciences Building.

E.L. Empey Lectureship in Home Economics

23 September, 7:30 p.m. William L. Rathje, Department of Anthropology, University of Arizona, Tucson, "The Garbage Decade." L-1 Humanities Centre. Tickets: \$5 (students, \$2). 432-3028.

The Arts

Exhibitions

Ring House Gallery

Until 4 October. "Structured Paradise: A National Park Experience." A photographic documentation examining Banff National Park in 1985, the year of its centenary.

McMullen Gallery Mackenzie Health Sciences Centre

8 September to 31 October. "In Touch With Abstract Art."

Bruce Peel Special Collections Library

Until 27 November. "Great Scott! The Literary World of Sir Walter Scott." First and early editions of Scott's poems and novels with those of his predecessors and contemporaries, accompanied by Scott's lively comments upon them. 8:30 a.m. to 4:30 p.m. Monday-Friday (closed weekends). B7 Rutherford South.

Music

20 September, 8 p.m. Third annual Encounters Concert Series opens. Tickets: \$3 (students/seniors), \$5 (adults), available from the Department of Music.

Surplus Equipment

The equipment appearing in this column is available only to University departments with University-administered funds. For more information, telephone Jody Brookwell or Roy Bennett, 432-3208.

For sale: 1 Brother HR-25 line printer with cut sheet feeder.
Betty Florchyk, History, 432-3146.

Award Opportunities

Rhodes Scholarship for 1988

Donor: The Rhodes Scholarship Trust.
Where tenable: University of Oxford. Level of study: Must have completed at least three years of university training by 1 October 1988. Field of study: Oxford BA, MSc, MLit, BCL, BPhil, MPhil or DPhil. Value: £10,000 per year. Number: Eleven. Three allotted to the Western Region: Manitoba, Saskatchewan and Alberta. Duration: Appointed for two years, possibility of third year if necessary. Conditions: A candidate must: (1) be a Canadian citizen or a person domiciled in Canada and unmarried. (2) have been born between 2 October 1963 and 1 October 1969. (3) have completed at least three years of university training by 1 October 1988. Closing date: 23 October 1987. Further information and application forms from: Student Awards Office, 252 Athabasca Hall.

Positions

The University of Alberta is committed to the principle of equal opportunity in employment and encourages applications from all qualified people.

In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

Academic

Associate Professor and Chairperson, Department of Clothing and Textiles

Nature of duties: Provide leadership for a diverse academic department offering both undergraduate and graduate programs in clothing and textiles; administer teaching, research and the service activities of the department, including a textile analysis service and an extensive historic costume and textile study collection; undergraduate and graduate teaching; represent the department both within the University and to the wider community.

Minimum qualifications: Doctorate in an area of clothing and textiles or a closely related field; demonstrated achievement in research and/or creative expression,

graduate advising, as well as teaching; demonstrated administrative and leadership qualities, and effective communication skills.

Appointment, rank and salary: Tenured appointment. Initial appointment as Department Chair is for five years. Salary commensurate with experience and qualifications (salary range: \$39,620-\$57,236). Starting date: 1 July 1988.

Application: Send letter of application, current résumé, and the names, addresses and telephone numbers of three references to: Dean E. Murray, Faculty of Home Economics, University of Alberta, Edmonton, Alberta T6G 2M8.

Application deadline: 1 November 1987.

Support Staff

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. Due to publication lead time and the fact that positions are filled on an on-going basis, these vacancies cannot be guaranteed beyond 28 August. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR.

Clerk Typist III (Technical), Mathematics, (\$1,366-\$1,716)
Clerk Steno III (Part-time, Trust), Surgery, (\$683-\$858)
Secretary (Part-time, Trust), Applied Sciences in Medicine (\$761-\$973)
Secretary (Trust), Department of Medicine (Palliative Care), (\$1,522-\$1,945)
Secretary, University Archives and Collections, (\$1,522-\$1,945)
Administrative Clerk, Office of Research Services, (\$1,522-\$1,945)
Medical Steno (Term to One Year), Department of Medicine, (\$1,522-\$1,945)
Medical Steno (Trust), Department of Medicine, (\$1,522-\$1,945)
Departmental/Executive Secretary, Faculty of Medicine, (\$1,716-\$2,208)
Food Services Worker I (Full- or Part-time Recurring Term), Housing and Food Services, (\$1,226-\$1,522) (pro-rated for part-time)
Dental Assistant II (Term), Dentistry, (\$1,468-\$1,864)
Technologist I, Entomology, (\$1,945-\$2,510)
Administrative Assistant I, International Student Affairs, (\$1,945-\$2,510)
Technologist II (Trust), Medicine, (\$2,115-\$2,741)
Technologist II (Textiles), Home Economics, (\$2,115-\$2,741)

For vacant Library positions, telephone 432-3339.

Advertisements

Accommodations available

Rent - California bungalow one block from campus, with garage. First floor only, fully furnished, dishwasher. Non-smoker. Phone 434-2911.

Sale - North Glenora. \$83,500. Superb neighborhood. Cute home nestled among large trees. Hardwood floors, spacious living room. Basement has rumpus room, bedroom, cold storage. Joy Murray, NRS Realty Centre. 438-6111.

Sale - Parkallen. Completely renovated

three-bedroom semi-bungalow, 1,230 sq. ft., on quiet crescent. Hardwood floors, deck, double garage, fully treed lot. \$89,000. Owner. 436-6856.

Rent - Riverbend executive home, furnished, 10 minutes from campus. 2,700', four bedrooms, 2 1/2 baths, den, large living-dining area, kitchen. Available 1 January-31 July. \$1,080/month. 430-6196 or 441-4801.

Sale - Mill Creek Park, half block west. Two-bedroom bungalow, detached heated studio. \$63,500. 432-5694, 929-6497.

Share - Well-appointed house. Dishwasher, fireplace, garage door opener, solarium. Yellowbird. 434-6104.

Rent - Ermineskin, furnished bungalow. Three bedrooms, 1 1/2 baths, double garage. Fifteen minutes University. Available January 1988 or earlier to August 1988. References. \$750/month. 436-9591.

Rent - Three-bedroom house. European style, furnished, south side, eight-minute drive to University, good bus connections, very reasonable rent, from 1 October 1987-June 1988 (dates flexible). 436-0116.

Rent - Westmount, immaculate bungalow, beautiful yard, deck, garage. Close to schools, shopping, hospital, bus. \$550. Basement suite \$350 plus utilities. Non-smokers. Available 15 September. 987-2739.

Sale - Bus to University, near WEM. Two storeys, four bedrooms, family room, double garage. Finished basement with recreation room, sewing room, den, only \$118,900. Ron Brown, Canada Trust, 468-2100.

Sale - Super townhouse. Three bedrooms, fireplace, upgraded. Excellent basement. Also two-bedroom, immaculate low-rise, quiet building, appealing amenities. Quick access to University and

hospital. Pat von Borstel, Spencer Realtor, 436-5250, 437-6540.

Sale - Custom-built bungalow. 2x6 construction. Neutral decor. Berber carpeting. Unistone driveway. Large yard. Chris Tenove, 433-5664, 436-5250. Spencer Realtor.

Sale - Perfect hideaway, just one mile off Devon highway. 1,660' bungalow. Two fireplaces. Double, attached garage. Not in subdivision. Must see to appreciate. Chris Tenove, 433-5664, 436-5250. Spencer Realtor.

Sale - Building lots. Buy now, build later. \$39,750-\$67,500. Chris Tenove, 433-5664, 436-5250. Spencer Realtor.

Sale - \$39,500. New listing. University area. Two-bedroom condominium. Appliances. Large, landscaped grounds. Walk to University. Chris Tenove, 433-5664, 436-5250. Spencer Realtor.

Sale - Attractive bungalow in Capilano/Hardisty Park area. Close to river valley. Well-built home. Chris Tenove, 433-5664, 436-5250. Spencer Realtor.

Sale - Excellent, University area, revenue property. For details, call Chris Tenove, 433-5664, 436-5250. Spencer Realtor.

Accommodations wanted

College instructor available to house-sit September to end April. 434-1696.

German doctor, wife, baby require furnished apartment from 1 November. Phone Malcolm King, 432-6703.

Dependable, professional couple will house-sit in Edmonton area beginning fall 1987. 474-4570.

Services

Donnic Word Processing. Specializing in theses, manuscripts, etc. 8315A 105 St. 432-1419.

Backaches? Stress tension? Special therapy at Back-Basics (supplementary health care reimburses treatment costs). Maria Krieg is a spine specialist, university-trained in Dusseldorf. 11610 75 Avenue. 436-8059.

Professional typing, \$1.20/page. Phone 435-3398.

City Secretarial Service. Word processing, typing, electronic scanning, FAX service, laser printing, dicta-typing. Thesis special, \$18/hour (min. 75 pages). 432-0138.

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McKernan School, 11330 76 Ave. Kindergarten-grade 9. Openings in most French Immersion (to grade 6) regular or alternate classes (to grade 9). For information or registration, call 435-4163 or 435-2668.

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